



# FortiWLC 3000D



November 30, 2017

3rd Edition

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# Box Includes



FortiWLC 3000D



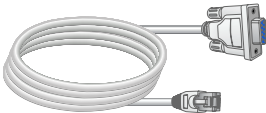
QuickStart Guide



2 Power Cables



Ethernet Cable



Console Cable



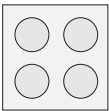
4 Bracket Screws



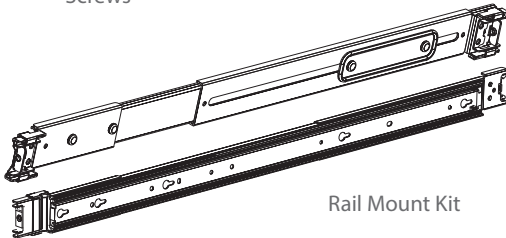
26 Rail Mount  
Screws



2 HDD tray keys

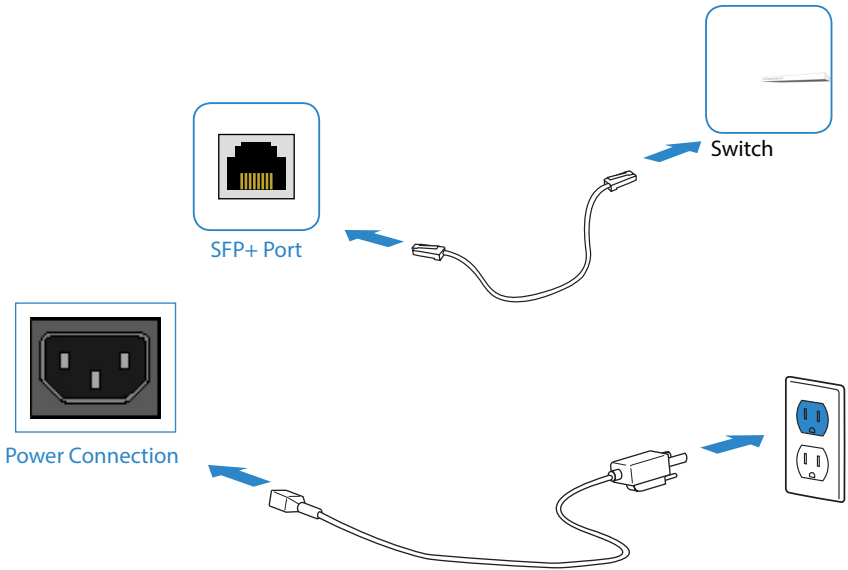


4 Rubber Feet



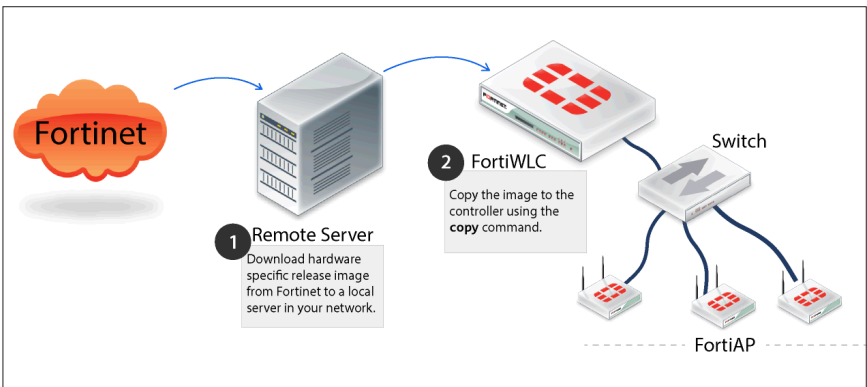
Rail Mount Kit

# 1 Basic Connections



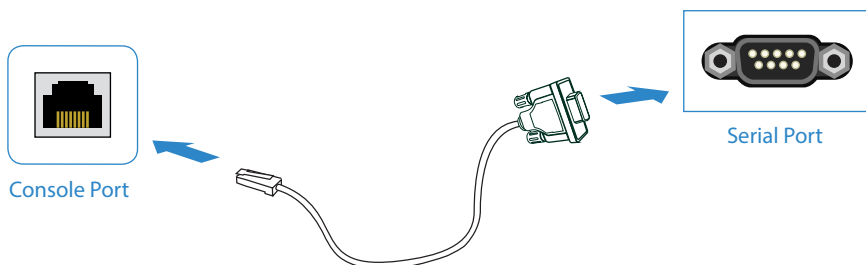
Connect your device to a [power outlet](#) and to [switch](#) with an SFP+ Port ([ports 1-8](#)).

## Typical Deployment Setup



## B

# Terminal Emulation with Console Cable



## To Connect to the CLI

1. Connect the **FortiWLC** unit **console port** to the management computer using the provided **console cable**.
2. Start a **terminal emulation program** on the management computer. Select the **COM port** and use the following settings:

**Baud Rate:** 115200  
**Data bits:** 8  
**Parity:** None  
**Stop bits:** 1  
**Flow Control:** None

3. Press **Enter** on your keyboard to **connect to the CLI**.
4. Login using username "**admin**" and password "**admin**". You can now proceed with configuring your **FortiWLC** unit.

Get started by typing "**?**" for a list of available commands.

Begin typing a command and type "**?**" for a list of available ways to complete. For example "**config ?**" shows the lowest level of configuration options.

For a detailed guide, visit <http://docs.fortinet.com/wireless-infrastructure/reference>.

## Hardware

The FortiWLC unit can be mounted in any standard [19 inch rack](#) unit with the provided rail mount kit.

Please read the “Cautions and Warnings” on page 20 prior to installing your device.

### To install the FortiWLC unit into a rack:

1. Ensure that the FortiWLC unit is placed on a stable surface prior to [rack-mount](#) installation.
2. Assemble the [rails](#) and install the system in the rack following the [safety instructions](#) and the rack installation instructions in [Rail Installation](#) (p. 8).
3. Verify that the [spacing](#) around the FortiWLC unit conforms to requirements and that the unit is level.
4. Connect the provided [power cables](#) to the system.
5. Plug the other end of the power cables into separate power sources, such as [uninterruptible power supplies](#) (UPS) or [power distribution units](#) (PDU).
6. Insert one end of the provided [Ethernet cable](#) into one of the Ethernet ports on the FortiWLC unit. Insert the other end to a [router or switch](#) that is connected to the [Internet](#).
7. Press the [power button](#) on the system to turn on the device.

Do not place heavy objects on the unit.

## Software

**IMPORTANT:** FortiWLC-3000D is supported from FortiWLC-SD 8.3 and above. This controller requires fresh installation and cannot be upgraded from older FortiWLC-SD releases.

To install release 8.3 in the new controllers, use the following instructions:

### Upgrading via CLI

Use the **show images** command to view the available images in the controller. By default, the new controller boots from the primary partition with the running image.

**NOTE:** The new controllers have two logical partitions, and the default image is available in both the partitions.

```
default(15)# sh images
```

```
Running image: Primary <-- denotes the current partition
```

```
-----
```

```
Running image details.
```

```
    System version: 0.0.7
```

```
    System hash: e9efe2c7ab0d10da660cad019d333f8d7772d6f1
```

```
    System branch: master
```

```
    System built: 20161115072723
```

```
    System memory: 114M/463M <-- Shows the available/total memory
```

```
    Apps version: 8.3-48
```

```
    Apps size: 303M/850M
```

```
-----
```

```
Other image details.
```

```
    System version: 0.0.7
```

```
    System hash: e9efe2c7ab0d10da660cad019d333f8d7772d6f1
```

```
    System branch: master
```

```
    System built: 20161115072723
```

```
    System memory: 150M/473M
```

```
    Apps version: False
```

```
    Apps size: 662M/849M
```



# Installation

To install the latest release, download the release image using the **upgrade-image** command (mandatory keywords are marked in red color):

```
upgrade-image scp://<username>@<remote-server-ip>:<path-to-image>/<image-name>-rpm.tar both reboot
```

**image-name** for FortiWLC: forti-{release-version}-{hardware-model}-rpm.tar.  
Eg.: forti-8.3-0-FWC3KD-rpm.tar

The above command will upgrade the secondary partition and the controller will reboot to secondary partition.

```
default(15)# sh images
```

```
Running image: Secondary <-- Current partition after the upgrade.
```

```
-----  
Running image details.
```

```
System version: 0.0.7  
System hash: e9efe2c7ab0d10da660cad019d333f8d7772d6f1  
System branch: master  
System built: 20161115072723  
System memory: 150M/473M  
Apps version: 8.3-0build-47  
Apps size: 230M/849M
```

```
-----  
Other image details.
```

```
System version: 0.0.7  
System hash: e9efe2c7ab0d10da660cad019d333f8d7772d6f1  
System branch: master  
System built: 20161115072723  
System memory: 116M/463M  
Apps version: 8.3-0build-46  
Apps size: 298M/850M
```

**NOTE:** After an upgrade the current partition becomes the second partition. For example, if you started upgrade in primary partition, post upgrade the default partition becomes secondary partition and vice- versa.

## Upgrading via WebUI

In the FortiWLC-SD WebUI, navigate to Maintenance > File Management > SD Version. Click the Import button to choose the image file.

The screenshot shows the 'Software Image Library and Logs' page with the 'SD versions' tab selected. The 'IMPORT' button is highlighted with a red arrow. An 'Import Image' dialog box is open, prompting the user to 'Select the Image file (.tar)' with a 'Choose File' button. The dialog also contains instructions: 'Once the import is complete, the controller will be upgraded to the secondary partition. Reboot the controller to use the upgraded version.' and 'SAVE' and 'CLOSE' buttons.

Software Image Library and Logs ?

AP Init Script Diagnostics **SD versions** Patches Syslog Configuration

REFRESH IMPORT

Running image

Running Image Details :

System version	0
System hash	e
System branch	n
System built	2
System memory	1
App version	0.0.0.0

Import Image

Select the Image file (.tar) Choose File No file chosen

Once the import is complete, the controller will be upgraded to the **secondary partition**.  
Reboot the controller to use the upgraded version.

SAVE CLOSE

After the import is complete, the following message is displayed.

The screenshot shows a terminal window with the following text:

10.34.95.78 says:

Execute the below command from controller prompt or console to complete the upgrade.

Option 1 (upgrade only): upgrade-image file://tmp/forti-8.3-0build-49-FWC3KD-rpm.tar both

Option 1 (upgrade and reboot): upgrade-image file://tmp/forti-8.3-0build-49-FWC3KD-rpm.tar reboot both

☐ Prevent this page from creating additional dialogs.

Now, from the CLI run the upgrade commands to complete the upgrade process.

## Switching Partitions

To switch partitions, select the partition during the bootup process.

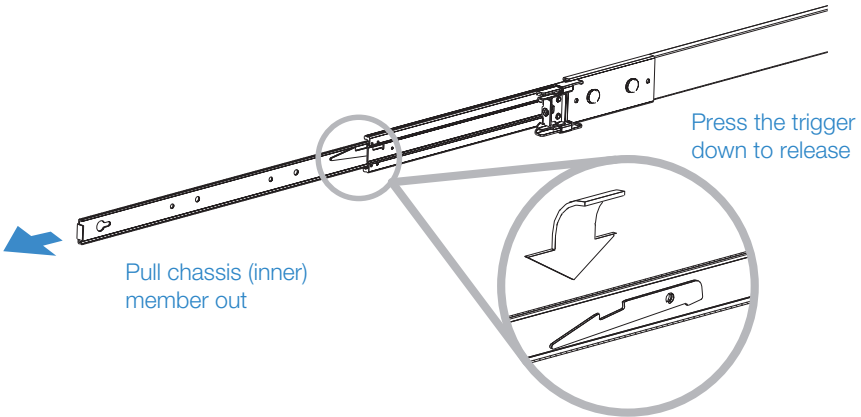


## 4

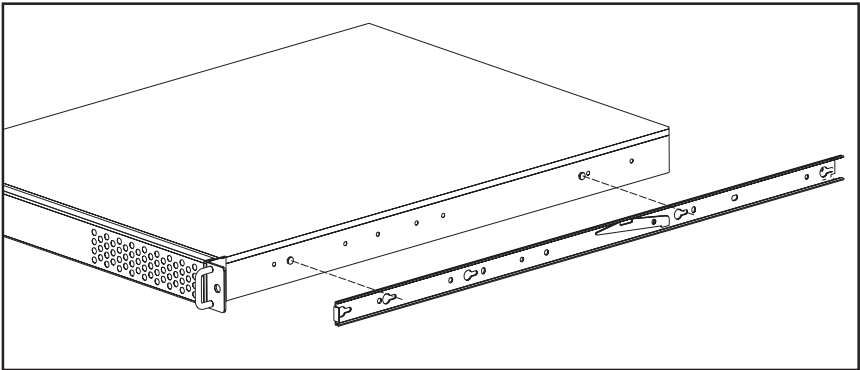
# Rail Installation

To install the FortiWLC unit using the rail mount kit:

1. To remove the chassis (inner) member, pull the slide open, and then press the trigger down as shown on the drawing, and pull the chassis (inner) member out.

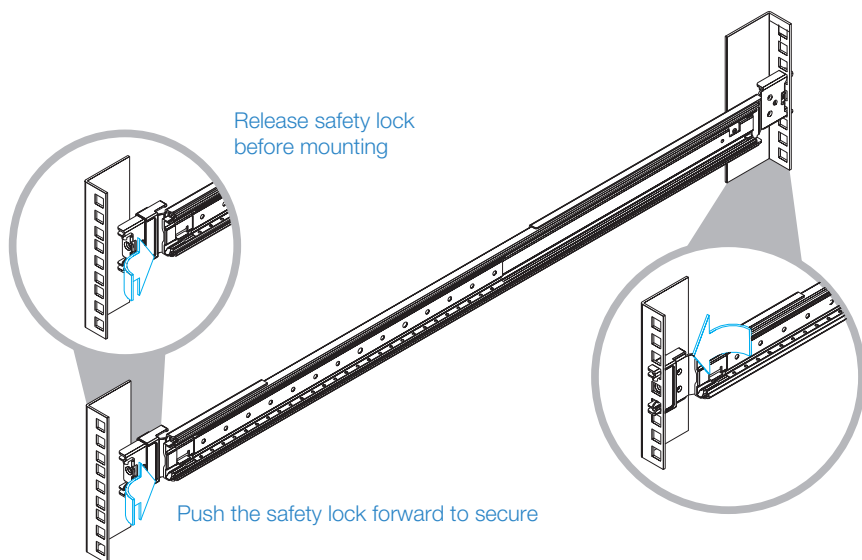


2. Use the standoffs to mount the chassis (inner) member to the chassis.

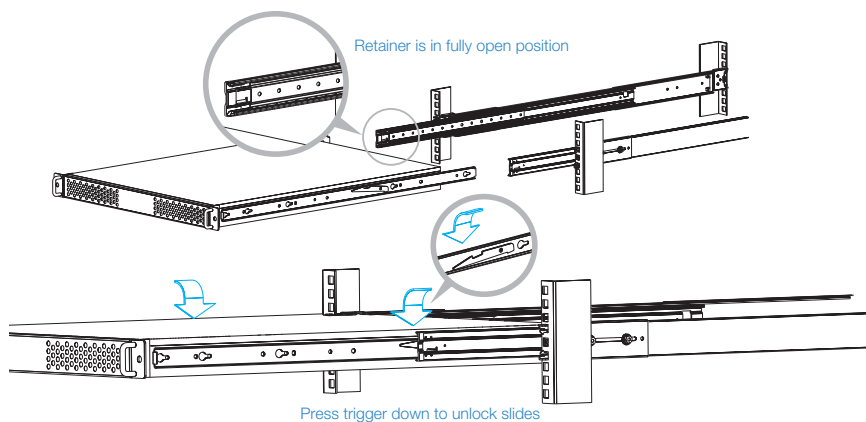


3. To attach the cabinet (outer) member to the rail, first ensure that the safety lock is in the unlocked position. Then, insert the stag into the upper and lower square holes on the EIA rail from the back of the rail.

Finally, push the safety lock forward to secure the bracket.



4. To mount the chassis into the cabinet, first ensure that the ball retainer is in the fully open position. Then, insert the chassis (inner) member into the cabinet member. When you push the chassis back into the cabinet, press the trigger down to release the slide from the locked position.

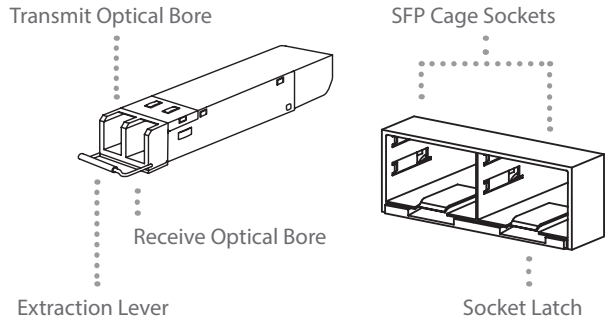


# SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

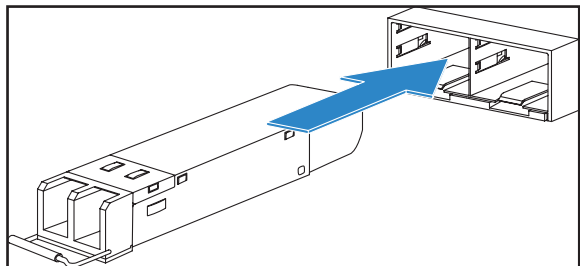
Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



## To install the SFP transceivers

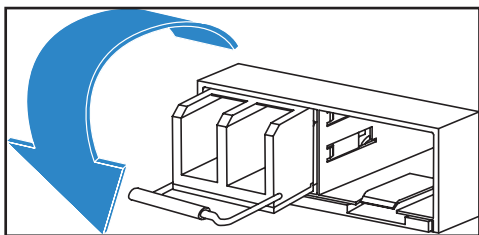
1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.  
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.



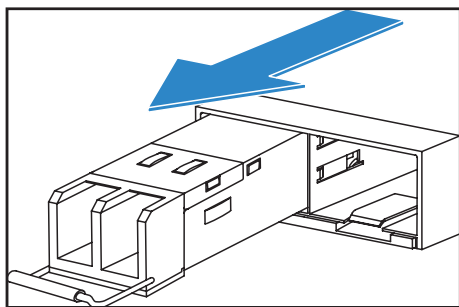
5. Press the **transceiver** firmly into the **cage socket** with your thumb.
6. Verify that the **transceiver** is latched correctly by grasping the sides of the **transceiver** and trying to pull it out without lowering the **extraction lever**.  
If the **transceiver** cannot be removed, it is installed and latched correctly.  
If the **transceiver** can be removed, reinsert it and press harder with your thumb.  
If necessary, repeat this process until the **transceiver** is securely latched into the **cage socket**.

## To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the **fiber-optic cable** from the **transceiver connector** and install a clean **dust plug** in the **transceiver's optical bores**.
3. Pull the **extraction lever** out and down to eject the **transceiver**. If you are unable to use your finger to open the **lever**, use a **small flat-head screwdriver** or other similar tool to open the **lever**.



4. Hold the sides of the **transceiver** and carefully pull it away from the **cage socket**.



5. Replace the **cap** on the **SFP cage socket** and place the removed **SFP transceiver** into an **antistatic bag**.

**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

# Supported SFP Transceivers

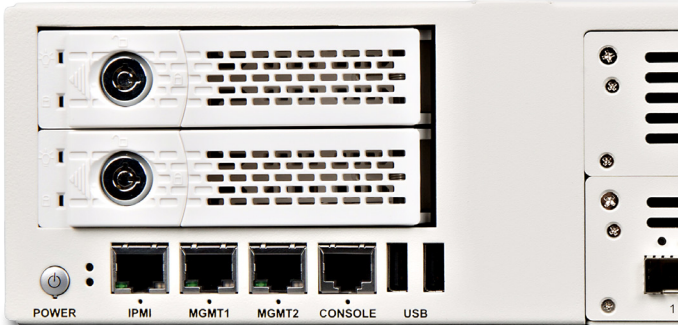
These are the supported transceivers for FWLC-1000D.

Supplier	Type	Part Numbers
Intel	DUAL RATE 1G/10G SFP+ SR (bailed)	FTLX8571D3BCV-IT
Finisar	SFP+ SR bailed, 10g single rate	FTLX8571D3BCL
Avago	10GBASE-SR/SW, SFP+	AFBR-709ASMZ
Finisar	DUAL RATE 1G/10G SFP+	FTLX8571D3BCV
Finisar	SFP+ SR, 10g single rate	FTLX 8574D3BCL
JDSU	10GB Fiber	PLRXPL-SC-S43-22-N
AXCEN	10GB Fiber	AXXE-5886-05B1
Finisar	1GB Copper	FCLF-8521-3
Finisar	1GB Copper	FCLF-8521P2BTL



Supplier	Type	Part Numbers
Avago	Dual Rate 10GBASE-SR/1000BASE-SX	AFBR-709DMZ
Finisar	DUAL RATE 1G/10G SFP+	FTLX8574D3BCVxxx

IPMI, MGMT1, and MGMT2  
Not used

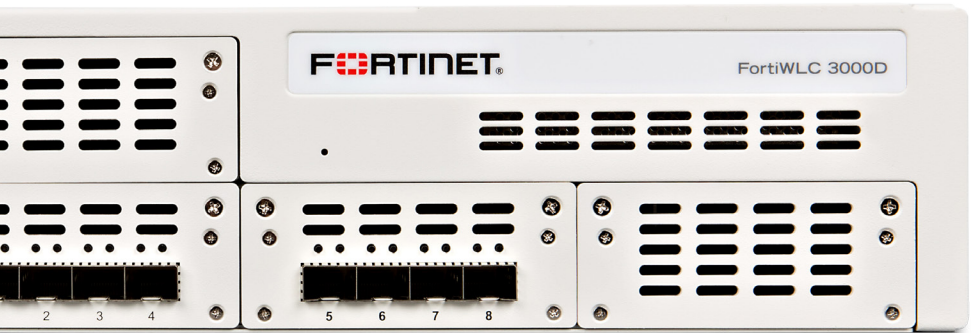


Console  
Optional connection  
to the management  
computer. Provides  
access to the CLI

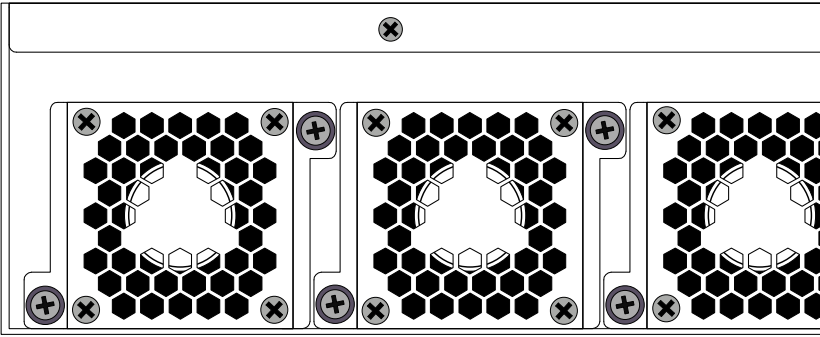


USB Ports (USB A)  
Reserved for future use

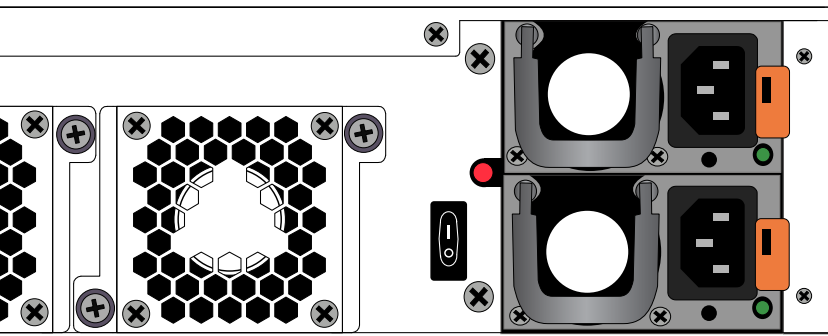
# Device Guide



SFP+ Ports 1 - 8 (SFP+)  
1G/10G Ethernet ports for  
connection to your network and the  
Internet









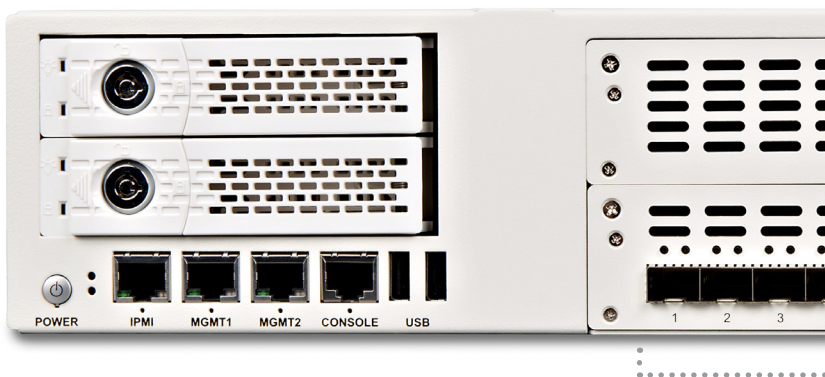
# Device Guide

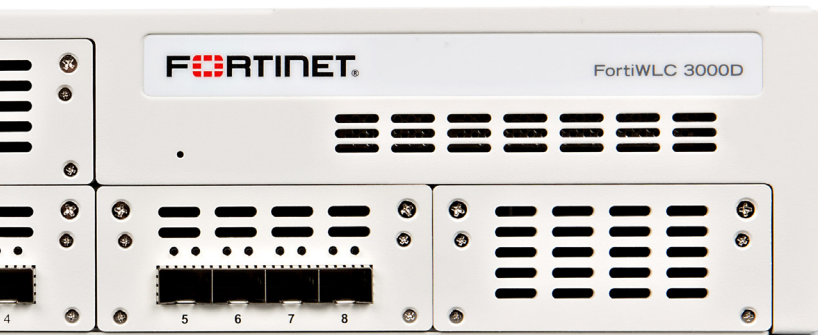


Power Switch

Power Connections  
100-240V AC, 6.9-2.8A, 50-60Hz  
redundant power supplies

- HDD Power
    -  Blue: HDD power on
    -  Off: HDD power off
  - HDD Activity
    -  Flashing Green: HDD read/write
    -  Off: HDD power off
  - Power
    -  Blue: System power on
    -  Off: The unit is off
- ...



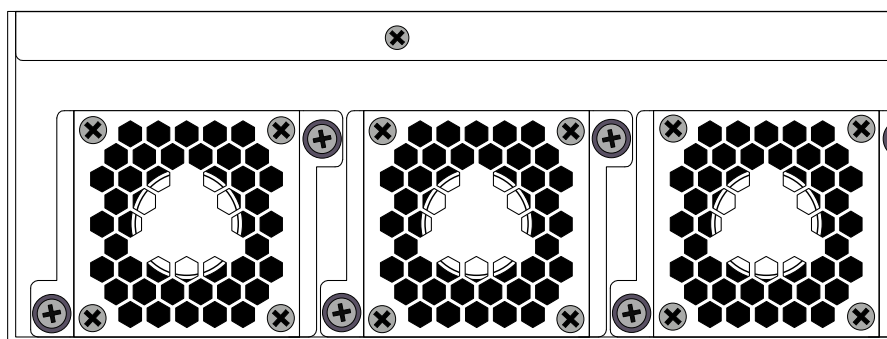


## SFP+ Ports Link/Activity (Left)

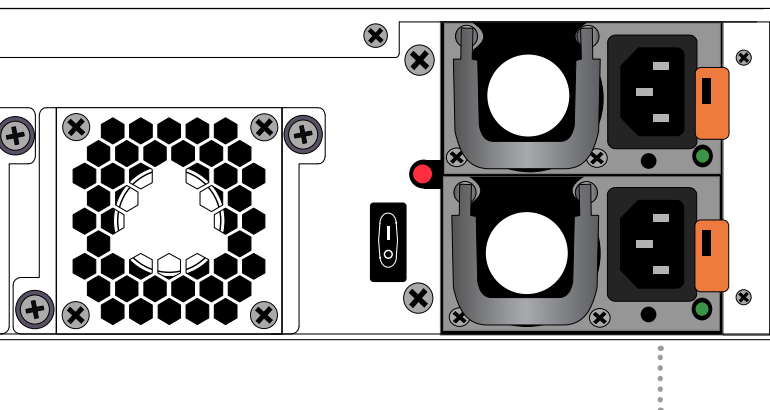
- **Green:** Connected
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established

## SFP+ Ports Speed (Right)

- **Blue:** Connected at 10Gbps
- **Yellow:** Connected at 1Gbps







## Power Connections

- **Green:** Power supply operating normally, power on
- **Flashing Green:** Power supply operating normally, system standby
- **Flashing Yellow:** Power supply malfunction
- **Off:** Power not connected

# Cautions and Warnings

## Environmental specifications

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.

Température ambiante élevée - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T<sub>ma</sub>) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Ventilation réduite - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Chargement Mécanique - Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenstion - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre - Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)  
Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

## Safety

Battery - Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie - Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告

本電池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

Caution: Disconnect power supply cords before servicing

Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.

Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

CE

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